SNF047

Appendix B-8

LAKE TAHOE RESTORATION PROJECTS
ESTIMATED DIRECT COSTS & KEY MILESTONE DATES

Project Name: Taylor, Tallac, and Spring Creek Watershed Ecosystem Restoration Project **Agency:** USFS LTBMU

Prepared by: Sarah Muskopf **Phone:** 530-545-2859 **EIP #:** 10044

Identify estimated costs of eligible reimbursement expenses:

1. **Planning, Environmental Assessment and Research Costs** (specialist surveys, reports, monitoring, data collection, analysis, NEPA, etc.)	$ 22,000	55 %
2. **Direct Labor (Payroll) to Perform the Project**	4,000	10 %
3. **Project Equipment** (tools, software, specialized equipment, etc.)	1,000	3 %
4. **Travel** (including per diem where official travel status required to carry out project, such as serve as COR, experts to review reports, etc.)	2,000	4 %
5. **Official Vehicle Use** (pro rata cost for use of Official Vehicles when required to carry out project)	1,000	3 %
6. **Cost of Contracts, Grants and/or Agreements to Perform the Project**	10,000	25 %
7. **Other Direct Costs** (direct labor for agency personnel to do project procurements; COR; PI; personnel assigned as NEPA lead; personnel assigned to review contracted surveys, designs/drawings, reports, etc.; project manager and/or project supervisor; and contracted costs for project manager and/or project supervisor if contracted separately		%
TOTAL*:	$ 40,000	100 %

Estimated Key Milestone Dates:

Milestones/Deliverables:	Date:
Complete Ecosystem Assessment Report	May 2005
NFMA scoping	Oct. 2005
NEPA process start	Oct. 2006
Develop Restoration and Monitoring Plan	June 2006
Project Implementaion	June 2007
Final Completion Date	Oct. 2009

COMMENTS: The SNPLMA Round 6 funding of $40,000 for this phase of the Taylor-Tallac Restoration project will initiate the NEPA process and environmental documentation for the restoration planning and construction phases of the project. Coordination and planning with the Washoe Tribe will also continue. The entire project costs, through construction, monitoring, and maintenance are $2,500,000. The out-year project funds will be requested in SNPLMA Rounds 7, 8, and 9.

Appendix I-2
GENERAL TAHOE PROJECT PROPOSAL

Project Name: Taylor, Tallac, and Spring Creek Watershed Ecosystem Restoration Project **EIP #** 10044

Lead Agency: U.S.F.S.- Lake Tahoe Basin Management Unit

Contact: Sarah Muskopf
Phone Number: 530-543-2835
Email Address: smuskopf@fs.fed.us

Threshold: WQ, WL, F, V, SC, SR, R
Threshold Standard: WQ1, WQ2, WQ4, WQ5, WQ6, WL1, WL2, F2, V1, V3, SC1, SC2, SR3, R1

Total Project Cost: $ 2,500,000
Round 6 Funding requested: $ 40,000
Is this a multi-year project? Yes

Project Description:

The USDA Forest Service, Lake Tahoe Basin Management Unit (LTBMU) requests funding to restore ecosystem processes in the Taylor, Tallac, and Spring Creek Watershed.

The Taylor, Tallac, and Spring Creek Watershed has experienced land-use impacts, including grazing, logging, road construction, and recreation, that have altered the ecosystem. The lower portion of the watershed, which is the focal area, was once a highly diverse wetland and meadow complex. Taylor and Tallac Creek Wetlands are two of the few remaining wetlands in the basin. Historically the wetlands were hydrologically connected, spanning over 400 acres, and supported a diverse suite of aquatic and terrestrial species. Comstock logging, over 150 years of grazing and high recreation-use have transformed the ecosystem, hampering its ability to perform the critical functions of a wetland. The importance of wetlands and their functions (hydrologic, water-quality, and habitat) are well recognized and restoration of these ecosystems is necessary.

In October of 2003 the LTBMU initiated a contract to conduct a comprehensive ecosystem assessment of the Taylor, Tallac, and Spring Creek Watershed. The Taylor and Tallac Creek Wetlands are located in the lower reach of the watershed. These areas were a focal point in the Ecosystem Assessment Report due to their ecological importance. The assessment was completed in late 2004. The completed assessment provides the LTBMU a better understanding of ecosystem function and processes prior to Euro-American settlement, current ecosystem function and processes, current and historic wildlife species composition, and what human and natural disturbances have altered or impaired the ecosystem.

The LTBMU will use the information gathered by the ecosystem assessment to develop a set of proposed actions for the Taylor, Tallac, and Spring Creek Watershed. The proposed actions will initiate the NEPA planning process. Upon completion of NEPA, the LTBMU will develop a Restoration Plan for the Taylor, Tallac and Spring Creek Watershed, including 100% construction plans and specifications for specific projects determined in the environmental review. The Restoration Plan will also include monitoring and maintenance plan that will be used to adaptively manage the area throughout and beyond restoration.

The LTBMU is requesting Round 6 funding to conduct NEPA, continue monitoring, and continue the planning process and coordination with partners.

Describe the purpose and need for the project:

At an ecosystem level, wetlands moderate the effects of floods, improve water quality, provide habitat for aquatic and terrestrial species, and have an aesthetic and heritage value. Over 75 percent of the wetlands historically in Lake Tahoe Basin have been degraded or destroyed. With this destruction and degradation has gone the reduction or elimination of wetland and meadow dependant species, the filtering of sediments along the shores of Lake Tahoe, and the cultural value once recognized by the Washoe Tribe.

The Taylor and Tallac Creek watershed has undergone a variety of natural and anthropogenic disturbances, causing alteration to ecological processes and functions. Disturbances within the watershed include timber harvest, road and parking lot construction, livestock grazing, fire suppression, and recreational use. The Taylor and Tallac Creek Wetlands are located in the lower reach of the watershed. These areas were a focal point in the Ecosystem Assessment Report due to their ecological importance. The wetlands are no longer hydrologically or biologically functioning.

The Ecosystem Assessment Report identifies restoration opportunities within the watershed and will be used to complete the needed environmental documentation. The Restoration Plan will determine the desired condition for the area, identify projects to restore natural processes and function, and determine the monitoring needs to adaptively manage the area after restoration.

Describe the goals and objective of the project:

The goals of the project are to restore the natural ecological processes and functions, and facilitate an appropriate balance between the human use and the natural resource values.

The objectives of the project are:

- restore hydrologic and geomorphic processes and functions,
- enhance and restore vegetative processes and wetland functions
- enhance the value of the site for aquatic and terrestrial wildlife
- enhance the site to benefit species of value to the Washoe Tribe
- improve water quality by reducing fine sediments and nutrients delivered to Lake Tahoe
- reduce adverse effects of recreation, grazing, and infrastructure development
- enhance educational and interpretive opportunities
- enhance human use and enjoyment of the site in ways consistent with its ecology, its history, the cultural values of the Washoe, and the mission of the U.S. Forest Service

Describe the anticipated project accomplishments:

We will restore hydrologic connectivity and function in Taylor and Tallac Creek Wetlands. We will restore the filtering capacity of the wetlands by improving storage capacity and vegetative composition. We will restore the area in order to improve the quality of rare habitat required by habitat specific species such as willow flycatcher and red bat. We will manage the lagoons near the mouths of Taylor and Tallac Creeks to improve function and provide habitat for native aquatic species such as Lahontan cutthroat trout, Mountain whitefish, tui chub. We will work with the Washoe Tribe to improve the cultural value of the area and increase the interpretive opportunities. We will provide ecologically sustainable recreational experiences and improve educational opportunities.

Describe the "readiness" of this project to move forward (environmental documentation, etc.):

An Ecosystem Assessment Report was completed in late 2004 that describes the historic and existing condition of the watershed, with a focus on the lower wetland areas. A technical advisory team was developed with members from Tahoe Regional Planning Agency, Lahontan Water Quality Board, Washoe Tribe and Forest Service. These partners will be involved throughout the project.

A Wyden agreement was signed in September 2004 between the USFS LTBMU and the Washoe Tribe of Nevada. This agreement is specifically for watershed restoration and provides funding for the Tribe to work collaboratively with LTBMU to plan and implement projects that accomplish mutual goals.

The LTBMU has contracted services from Dr. Michael Morrison, a wildlife restoration expert. His team has developed a list of species that historically inhabited the area. Through field investigation in 2004, a current species list was developed. From this information desired conditions will be determined and incorporated into the Ecosystem Assessment Report.

Aerial photos of the entire watershed were taken in 2004 and can be used for future monitoring efforts.

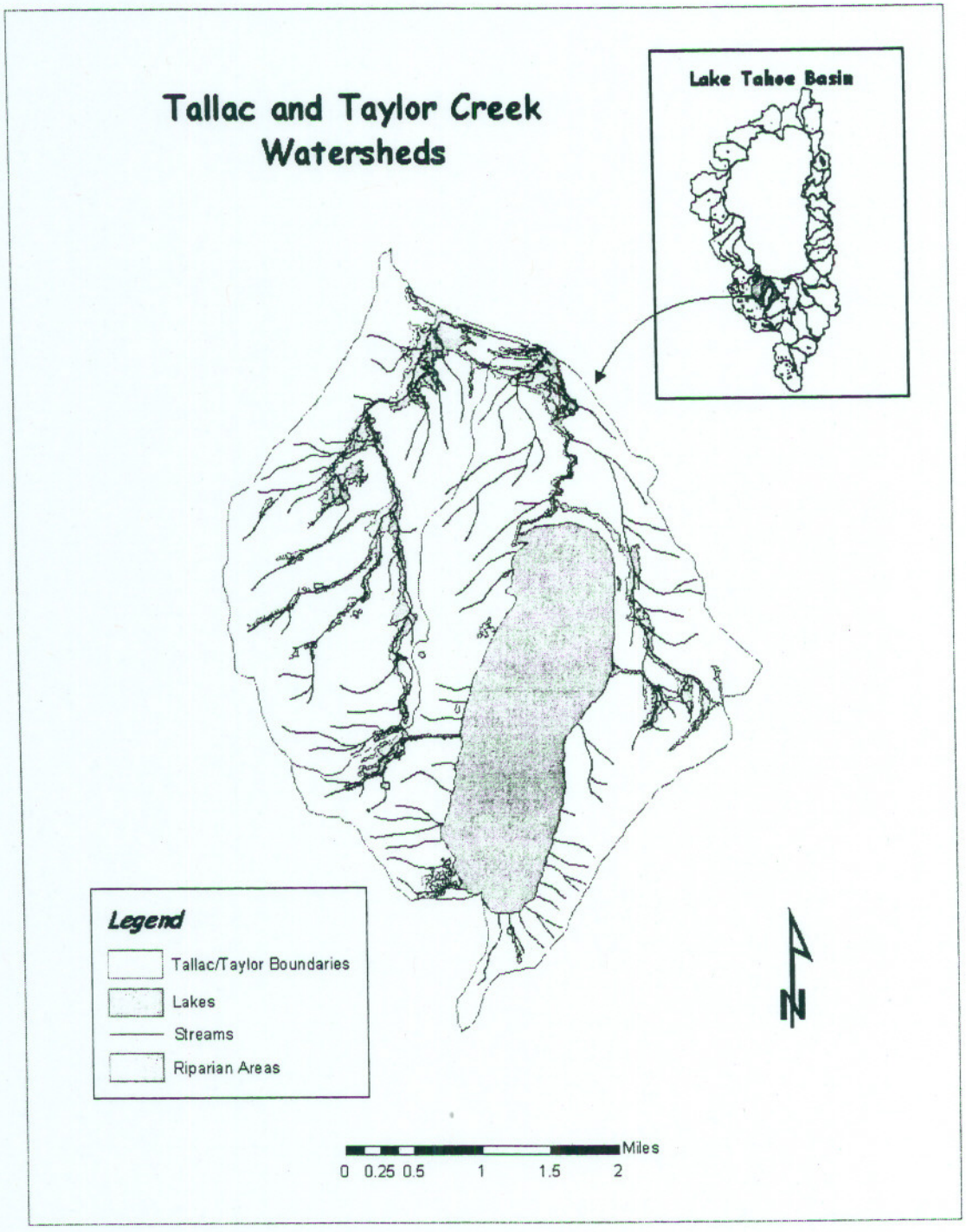
Describe partnerships for this project (include documentation):
A technical advisory committee was developed with members from the Washoe Tribe of Nevada, Tahoe Regional Planning Agency, and Lahontan Water Quality Board. The Ecosystem Assessment was completed in full cooperation with the above mentioned partners. A Wyden agreement was signed between the USFS LTBMU and the Washoe Tribe of Nevada. This agreement is specifically for watershed restoration planning and implementation.

Describe the anticipated project effectiveness monitoring program for use with adaptive management framework:

A monitoring plan will be developed to determine project effectiveness relative to trends of target physical and biological processes, and desired conditions stated in the restoration plan. The results of continuous long-term monitoring will trigger project maintenance if project goals are not being accomplished. Monitoring efforts will focus on:

- species composition, including both terrestrial and aquatic species as well as vegetative species.
- Ground water measurements
- Stream channel turbidity
- Aerial photography and photo points

Include an 8 ½ X 11 map depicting the project, or research/ study area.



COST SHARE AGREEMENT
COST REIMBURSABLE AGREEMENT
(Reference FSH 1509.11)

1. Federal Identifier No.	2. Amend. #	3. Authority	4. Exp. Date
04-PA-11051900-027		Wyden, Pub.L.105-277, as amended	09/30/2008

5. Agency	6. Cooperator
Name USDA Forest Service, LTBMU, Ecosystems Restoration	Name Washoe Tribe of Nevada and California Taxpayer ID # 88-0120754
1st Line Address 35 College Drive	1st Line Address 919 Highway 395 South
2nd Line Address	2nd Line Address
City South Lake Tahoe State CA Zip Code 96150	City Gardnerville State NV Zip Code 89410
7. Agency Principal Contact	8. Cooperator Principal Contact
Name Jim Howard	Name Marie Barry
Phone: 530.543.2657	Phone: 775.265.8682
Email: jmhoward@fs.fed.us	Email: marie.barry@washoetribe.us
1st Line Address (enter address if different than above):	1st Line Address (enter address if different than above):
2nd Line Address	2nd Line Address
City State Zip Code	City State Zip Code

9. Purpose - give brief explanation of what parties going to do (attach extra sheets as needed)

USDA Forest Service, LTBMU, Ecosystems Restoration (ER) will conduct ecosystem assessments and restoration plans in the Meeks, Tallac, Taylor, and Spring Creek watersheds. As part of these comprehensive assessments and long-range restoration plans, Washoe Tribe Environmental Protection staff will contribute time equal to .5 pft per year to assist ER in asessing historic conditions, determining future desired conditions, and planning projects.

10. Statement of Mutual Benefits and Interest (attach extra sheets as needed)

Under the Sierra Nevada Forest Plan Amendment the LTBMU is directed to restore ecosystem function and manage its lands to maximize multiple resource benefits in the Lake Tahoe Basin. Because the Meeks, Tallac, Taylor, and Spring Creek watersheds contain Washoe ancestral lands, and because the Washoe Tribe manages the Meeks Bay Resort and Campground under Special Use Permit with LTBMU, the Tribe also has a vested interest in restoring ecosystem function and managing these lands to maximize multiple resource benefits. Through coordinated and cooperative planning between LTBMU and the Washoe Tribe, an effective and mutually beneficial plan can be developed for the future management of these lands.

11. Funding Summary (attach detailed financial plan to support summary)

Federal	Non-Cash	Inkind	Reimb. Coop.
Sub-Total Funding	125,160	0	30,000
Total Federal Funding	$155,160.00		

Non-Federal	Non-cash	Inkind	Cash
Sub-Total Funding	0	0	0
Total Non-Federal Funding	$0.00		

12. Job Code (for payment to cooperator)	NFVW0904

13. Agency Administrative Contact	14. Cooperator Administrative Contact
Name Karine Wagner, Grants & Agreements Coordinator	Name Marie Barry
Phone 530/587-3558	Phone 775/265-8682
Email karinewagner@fs.fed.us	Email marie.barry@washoetribe.us

15. Approval Section (this agreement is effective as of the last date written below)

Agency Approval	Cooperator Approval
Signature / Date 7-20-04	Signature / Date 5/14/04
Title Forest Supervisor	Title Chairman For Chairman Wallace